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39. Proposed by WILLIAM SYMMONDS, A. M., Professor of Mathematics and Astronomy, Pacific College, Santa Rosa, California.

A straight inflexible bar of uniform weight and thickness, length m is suspended at the two ends by a string without weight, length $l > m$ passing freely over a peg driven in a perpendicular wall. Describe and analyze the curve traced on the wall by the ends of the hanging bar.

NOTE.—Problem No. 43, Calculus, should read as suggested by Dr. E. A. Bowser on page 60 of February number. Prof. Black had noted the correct form in his copy of Williamson, and so sent it to the MONTHLY, but an error was made in printing the expression. A letter from Dr. Williamson, Trinity College, Dublin, Ireland, acknowledges the error in his work, and says it will be corrected in the forthcoming new edition of his book.

WANTED.—Some one to give a list, partial or complete, of the curves of the fourth degree that have received particular names, such as the "Lemniscate," "Cocked Hat," "Devil's Walking Stick," "Conchoid," etc.

COOPER D. SCHMITT.

BOOKS.

Warren Colburn's First Lessons: Intellectual Arithmetic upon the Inductive Method of Instruction (1891).

H. N. Wheeler's Second Lessons (1893). Boston, New York, and Chicago: Houghton, Mifflin and Company.

First Lessons, which has been famous for three-fourths of a century, contains, besides the four fundamental operations, little but fractions and denominate numbers. It has no rules and but little written work. It follows the inductive method—the method of "Practice before Theory"—which is based on the soundest psychological principles. This book should be in the hands of every teacher, whether used as a class book or not.

Wheeler's Second Lessons is intended as a continuation of Colburn's *First Lessons*, and is well adapted for that purpose.

J. M. C.

Logarithmic Tables. By Professor George William Jones, of Cornell University. Sixth Edition. Royal 8vo. Cloth. 160 pages. Price, \$1.00. Published by the author.

These are the best tables that we have yet seen. Eighteen tables (four-place, six-place, ten-place) with full explanation for their use, for use in the class-room, laboratory, and the office. The tables of Mathematical Constants, Chemistry, Engineering, and Physics deserve special mention. Also Table IX which gives the prime factors of composite numbers less than 20000, and Tables X and XI which give the squares and cubes of all

three figure numbers in full. If you want a complete and valuable set of tables buy a copy of Prof. Jones, and you will need none other. B. F. F.

Mathematical Papers Read at the International Mathematical Congress held in Connection with the Columbian Exposition, Chicago, 1893. Edited by the Committee of the Congress, E. Hastings Moore, Oskar Bolza, Heinrich Maschke, Henry S. White. Large 8vo. Cloth, 412 pages. Price, \$4.00, New York: Macmillan & Co.

This important collection of important mathematical papers is given to the mathematicians of all time at no small amount of labor at the hands of the editors.

It is especially fitting that these papers, many of which indicate the high-water mark of the development of mathematics at the present time, should be collected and bound for the benefit of the mathematicians of the centuries yet to be.

Neither the management of the Exposition nor the government of the United States had made any provisions for the publication of the proceedings of any of the Chicago Congresses. No publisher was found willing to issue the papers at his own risk.

At last a guarantee fund of one thousand dollars in all was subscribed, six hundred dollars by the American Mathematical Society, and four hundred dollars by members of the Society and other mathematicians. On the basis of this guaranty fund the publication of the volume of the papers was made possible, the American Mathematical Society assuming the financial, and the Chicago Committee the editorial responsibility. *Preface.* B. F. F.

NOTES.

Dr. William B. Smith, of the Tulane University of Louisiana, has in press the first volume of his Infinitesimal Analysis.

The June number of the MONTHLY will be mailed about the 16th of the month. In this issue will appear the biography of Mr. W. J. C. Miller.

Dr. George Bruce Halsted, of the University of Texas, and Dr. David E. Smith, of the Michigan State Normal School, will spend the summer in Europe. Dr. Halsted will visit Paris, Genoa, Buda Pest, Moskow, Kazan, etc.

ERRATA. In Prof. G. B. M. Zerr's paper, "The Centroid of Areas and Volumes," in value of \bar{x} , bottom of page 73, in numerator read $\frac{1}{2}(2p+1)$ for " $\frac{1}{2}2p+1$," and in denominator read $\frac{k}{2}(2n+1)$ for " $\frac{k}{2}(2n=1)$ " and $\frac{h}{2}(2m+1)$ for " $\frac{h}{3}(2m+1)$ ". Page 75, line 8 read $\left(\frac{z}{c}\right)$ for " $\frac{z}{c}$." Page 102, last line, read $-a^4 \log\left(\frac{a^2+4h+2\sqrt{2a^2h+4h^2}}{a^2}\right)$ for " $-a^4 \log\left(\frac{a^2+4h+1\sqrt{2a^2h+4h^2}}{a^2}\right)$," Page 103, first line, last expression in numerator read $\sqrt{2a^2h+4h^2}$ for " $\sqrt{2a^2h+4h^2}$ " and in second line read dx for " bx ."